

WHAT IS CLAIMED IS:

1. A seal fitting for connecting a thermocouple (TC) or resistance temperature detector (RTD) to a lead wire from a sensor positioned on the opposite side of a bulkhead comprising:

a shell;

means retained to said shell for clamping a lead wire from a TC or RTD sensor;

a ceramic disk retained in said shell in spaced relationship to said sensor wire clamping means;

a male conductive pin with one end in electrical contact with said sensor wire clamping means and the other end extending through said ceramic disk, the ceramic material comprising said disk sealing against said male conductive pin;

a sleeve engaged to said shell with the ceramic disk interposed between said sleeve and said sensor wire clamping means;

a female conductive pin extending through said sleeve and into electrical contact with said male conductive pin when said sleeve is engaged to said shell; and

means in electrical contact with said female conductive pin for clamping a lead wire from the TC or RTD.

2. The seal fitting of claim 1 wherein said sensor wire clamping means comprises a clamping tab biased away from a receptacle for receiving the TC or RTD sensor lead wire and a cap screw for tightening said clamping tab against the TC or RTD sensor lead wire when the TC or RTD sensor lead wire is received within the receptacle.

3. The seal fitting of claim 2 wherein said TC or RTD lead wire clamping means comprises a clamping tab biased away from a receptacle for receiving the TC or RTD lead wire and a cap screw for tightening said clamping tab against the TC or RTD lead wire when the TC or RTD lead wire is received within the receptacle.

4. The seal fitting of claim 2 wherein said clamping tab is biased away from the receptacle by a spring, said spring being confined by a threaded tab, said cap screw being threaded through said threaded tab.

5. The seal fitting of claim 2 wherein said clamping tab is provided with a prong extending into the receptacle for receiving the TC or RTD lead wire for contacting the TC or RTD lead wire when said cap screw is tightened.

6. The seal fitting of claim 1 additionally comprising a body for engaging the bulkhead, said shell being provided with a groove for receiving an O-ring therein for sealing against said body.

7. The seal fitting of claim 1 wherein said ceramic disk and said sensor wire clamping means are located at opposite ends of said shell.